

Power Electric Tester

III. TH7200 Series Programmable AC/DC PowerSupply

Features

- 24-bit color 4.3-inch 480 x 272 color LCD, Chinese and English interface
- Linear amplification design, single-phase input, AC, DC, AC/DC output:
Output power: 500VA, 1000VA
Output voltage: 0-300V
Setting frequency: 1Hz-1kHz
- Support DC output:
Output power: 350W, 700W
Output voltage: 1.4-424V
- Front and rear panel output
- Output switch control
- Flexible and convenient operation: numeric keypad, adjustment knob
- Waveform output function
Built-in waveforms: Sine, Square, Triangle, Clip, Glitch, Trap,
Dimmer Support customized waveforms, which can be imported
via CSV file
- Start phase, end phase setting
- Support timing function
- 14 kinds of electrical parameters measurement
- Store setup parameters and test results
- Support USB to upgrade instrument firmware
- Seven protection modes



RS232	LAN	USB HOST	USB DEVICE
standard	standard	standard	standard

Dimension(mm): 430(W)×177(H)×610(D)
Weight: 27.5kg

Application

- Motors and transformers
- Electronic production design
- Lighting
- Aerospace military
- Network communication
- Audio and video equipment
- Monitoring equipment
- Power specifications simulation of different countries
- Electromagnetic compatibility equipment

Specifications

Model			TH7205	TH7210
Input Parameter				
Phase			1Ø/2W	
Voltage			100-120Vac, 200-240Vac	
Frequency			47-63Hz	
Maximum Current			11.3A/5.5A	22.5A/10.8A
Power Factor			0.7	
AC Output Parameter				
Rated Power			500VA	1000VA
Output Voltage	Range	LOW	1.0-150.0V	
		HIGH	2.0-300.0V	
	Resolution		0.1V	
	Accuracy		±(0.3% + 0.6V of set voltage)	
Output Frequency	Range		1Hz-1000Hz	
	Accuracy	0.01Hz 1.00-99.99Hz		
		0.1Hz 100.0-999.9Hz		
Maximum Current(RMS)		LOW	5.0A	10.0A
		HIGH	2.5A	5.0A
Maximum Peak Current			Maximum Current (RMS)X4 (TYP)	
Power Factor			0-1	
DC Output Parameter				
Rated Power			350W	700W
Output Voltage	Range	LOW	1.4-212.0V	
		HIGH	2.8-424.0V	
	Resolution		0.1V	
	Accuracy	LOW	±(0.05% of set voltage + 0.05V)	
HIGH		±(0.05% of set voltage + 0.1V)		
Maximum Current(RMS)		LOW	3.5A	7.0A
		HIGH	1.75A	3.5A
Maximum Peak Current			Maximum current(RMS)X3.6 (TYP)	
Ripple Noise			<=0.15Vrms	

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Additional Output Parameters				
Line Regulation				±0.1%
Load Regulation		LOW	±0.1V	
		HIGH	±0.2V	
Total Harmonic Distortion(THD)				≤0.2%
Response time				30μS (TYP)
Energy efficiency				≥55%
Setup Parameters				
Voltage	Range	AC	LOW	0-150V
			HIGH	0-300V
		DC	LOW	± (1.4-212.0) V
			HIGH	± (2.8-424.0) V
	AC+DC	LOW	AC: 0-150V; DC: ± (1.4-212.0) V	
		HIGH	AC: 0-300V ; DC: ± (2.8-424.0) V	
Resolution		0.1V		
Measurement Parameters				
Voltage	Range	AC	0-300Vac	
		DC	-424-424V	
	Resolution		0.1V	
Accuracy		±(1% of the readout + 2 words)		
Frequency	Range		1Hz-1000Hz	
	Resolution		0.01Hz 1.00-99.99Hz 0.1Hz 100.0-999.9Hz	
Current	Range	AC	0.00-5.00A	0.00-10.00A
		DC	0.00-2.50A	0.00-5.00A
	Resolution		0.01A	
	Accuracy		±(1% of the readout + 2 words)	
Peak Current	Range	AC mode	Maximum current (RMS)x 4(TYP)	
		DC mode	Maximum current (RMS) x 3.6(TYP)	
	Resolution		0.01A	
	Accuracy		±(5% of the readout + 2 words)	
Power	Range		0-500W	0-1000W
	Resolution		0.1W	
	Accuracy		±(±1% of the readout + 3 words)	
Power Factor	Resolution		0.001	
	Accuracy		Calculates and displays to 3 valid digits	
General Parameter				
Display			4.3-inch TFT LCD, 480 x 270	
Interface			RS232,USB DEVICE,USB HOST,LAN	
Programming Protocol			SCPI,MODBUS	
Storage	Steps		600 steps	
	Wave Library		64 sets	
Protection			Over-set current protection (HI-A), over-voltage protection (OVP), low-voltage protection (LVP), over-current protection (OCP), over-power protection (OPP), over-temperature protection (OTP)	
Operating Environment				
Power Supply	Voltage		100-120Vac or 198-242Vac	
	Frequency		47-63Hz	
	Power		≥80VA	
Operating Temperature			0℃~40℃	
Operating Humidity			20%~80% (non-condensing)	
Storage Temperature			-20℃~70℃	
Altitude			Operate at altitudes up to 2000 meters	
Contamination Level			Pollution level 2	
Safety Class			Safety Category II	
Dimensions and weight				
Dimension (L×W×H) mm			430 (W)×177(H)×610(D)	
Net Weight (kg)			27.5	